

SNOHOMISH RIVER BASIN

12145500 RAGING RIVER NEAR FALL CITY, WA

LOCATION.--Lat 47°32'24", long 121°54'28", on west line sec.27, T.24 N., R.7 E., King County, Hydrologic Unit 17110010, on right bank at highway bridge 2.0 mi southwest of Fall City, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--30.6 mi².

PERIOD OF RECORD.--July 1945 to September 1950, water years 1951, and 1953-63 (annual maximum), December 1963 to June 1973, October 1973 to April 1974, October 1974 to current year.

REVISED RECORDS.--WSP 1316: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1950, water-stage recorder on left bank at present site and datum. August 1951 and January 1953 to February 1963, crest-stage gage only on left bank at present site and datum.

REMARKS.--Records good. Some small diversions for irrigation and domestic use upstream from station. No regulation. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--41 years (water years 1946-50, 1965-72, 1975-2002), 132 ft³/s, 58.70 in/yr, 95,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,220 ft³/s Nov. 24, 1990, gage height, 6.56 ft; maximum gage height, 6.75 ft Feb. 9, 1951; minimum daily discharge, 4.4 ft³/s Aug. 21, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	1345	*2,350	*5.41	Jan. 25	0800	1,740	4.97
Dec. 13	1615	1,860	5.00	Apr. 14	0345	1,470	4.69
Dec. 16	1100	1,330	4.54				

Minimum discharge, 12 ft³/s several days in Aug. and Sept.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	225	522	65	223	118	140	71	77	76	16	12
2	17	214	498	86	188	102	124	71	68	60	16	13
3	17	171	337	75	197	92	109	70	60	51	15	e31
4	16	145	280	74	175	83	100	65	56	46	16	16
5	15	196	242	67	179	94	100	79	73	41	17	14
6	15	147	324	92	202	85	120	79	95	37	16	13
7	15	120	276	499	242	75	111	85	76	36	16	13
8	28	100	252	609	316	69	98	82	75	44	15	13
9	32	87	315	351	248	65	123	74	68	36	15	13
10	29	75	255	234	218	71	236	68	59	32	14	13
11	76	65	219	180	202	335	301	62	54	28	15	13
12	50	65	218	187	157	322	377	58	49	27	14	13
13	88	136	1280	172	130	291	666	61	43	26	14	12
14	89	1480	791	139	112	252	1070	81	39	24	13	12
15	70	777	455	121	102	240	586	66	38	24	13	12
16	76	449	1030	109	97	215	441	60	36	23	13	14
17	109	280	746	104	95	168	319	65	35	22	13	17
18	72	201	439	109	132	145	238	59	42	21	13	13
19	124	205	344	260	154	299	186	55	54	21	13	13
20	125	218	249	389	140	606	154	60	38	21	14	13
21	112	253	194	359	445	297	132	59	34	19	14	13
22	183	435	156	224	695	218	132	69	31	19	13	13
23	157	552	129	170	545	189	126	72	29	18	13	12
24	186	308	112	463	410	172	111	61	29	18	13	12
25	341	219	99	1200	272	176	98	56	27	18	13	12
26	219	185	89	526	203	155	92	52	27	18	13	12
27	223	153	80	295	162	146	100	51	26	19	13	12
28	188	210	83	208	138	159	89	76	65	18	13	12
29	137	558	73	162	---	179	80	181	170	20	12	19
30	129	501	67	173	---	161	75	114	83	19	12	15
31	231	---	69	247	---	138	---	90	---	18	12	---
TOTAL	3187	8730	10223	7949	6379	5717	6634	2252	1656	900	432	415
MEAN	103	291	330	256	228	184	221	72.6	55.2	29.0	13.9	13.8
MAX	341	1480	1280	1200	695	606	1070	181	170	76	17	31
MIN	15	65	67	65	95	65	75	51	26	18	12	12
AC-FT	6320	17320	20280	15770	12650	11340	13160	4470	3280	1790	857	823
CFSM	3.36	9.51	10.8	8.38	7.45	6.03	7.23	2.37	1.80	0.95	0.46	0.45
IN.	3.87	10.61	12.43	9.66	7.75	6.95	8.06	2.74	2.01	1.09	0.53	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

	MEAN	71.6	218	259	265	226	183	149	88.0	65.3	32.4	19.1	31.4
MAX	266	602	472	458	476	389	255	168	158	106	51.2	96.7	
(WY)	1948	1991	1976	1971	1972	1950	1997	1964	1997	1976	1964	1964	
MIN	7.77	23.7	10.2	94.7	53.7	58.4	60.8	38.0	19.0	13.2	7.04	9.71	
(WY)	1988	1988	2001	1985	1977	1992	1998	1947	1992	1967	1967	1987	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1945 - 2002

ANNUAL TOTAL		45149		54474								
ANNUAL MEAN		124		149								
HIGHEST ANNUAL MEAN										132		1972
LOWEST ANNUAL MEAN										206		1977
HIGHEST DAILY MEAN		1480	Nov 14	1480	Nov 14	3340	Nov 24	1990		77.8		
LOWEST DAILY MEAN		14	Aug 20	12	Aug 29	4.4	Aug 21	1967				
ANNUAL SEVEN-DAY MINIMUM		15	Sep 12	12	Sep 22	4.9	Aug 15	1967				
ANNUAL RUNOFF (AC-FT)		89550		108000						95770		
ANNUAL RUNOFF (CFSM)		4.04		4.88						4.32		
ANNUAL RUNOFF (INCHES)		54.89		66.22						58.70		
10 PERCENT EXCEEDS		252		336						297		
50 PERCENT EXCEEDS		76		85						77		
90 PERCENT EXCEEDS		18		13						14		

e Estimated